

CONTRACT NO. 09-204-100478**PRECOMMERCIAL THINNING & WHITE PINE PRUNING
PROJECT DESCRIPTION****SUPERVISORY AREA:** Priest Lake**PROJECT NAME:** Trapper Jack Thin and Prune**PROJECT NUMBER:** 10-478-112-09**PROJECT AREA:** 486 acres

- 1. PROJECT LOCATION:** Unit 1 is located approximately 7 air miles southeast of Coolin, Idaho. Unit 2 is located approximately 5 air miles southeast of Coolin, Idaho. Units 3-6 are located in the Jack Pine Flats area approximately 4 air miles south of Coolin, Idaho. Units 7-9 are located in the Upper Hunt Creek drainage approximately 8 air miles northeast of Coolin, Idaho. Units 10-15 are located in the Caribou Creek Drainage approximately 22 air miles north of Coolin, Idaho. Units 16-19 are located approximately 24 air miles north of Coolin, Idaho.

The following legal descriptions apply:

UNIT	SUBDIVISION	SEC.	TWP.	RGE.	ACRES
1	Pts. NE	6	58N	3W	10
2	Pts. SENW, E2SW, NWSE	29	59N	3W	30
3	Pts. SWNW	1	58N	4W	47
	Pts. SENE	2	58N	4W	
4	Pts. SESE	35	59N	4W	18
5	Pts. Lot 2	2	58N	4W	37
6	Pts. SESE	34	59N	4W	12
	Pts. SESW	35	59N	4W	
7	Pts. SWSW, E2SW, W2SE	5	60N	3W	67
	Pts. NENW	8	60N	3W	
8	Pts. S2NE, SENW, N2SW	4	60N	3W	67
	Pts. SWSW, N2SE	4	60N	3W	
9	Pts. S2NE	4	60N	3W	14
10	Pts. NESW, S2SW	24	63N	4W	21
	Pts. N2NW	25	63N	4W	
11	Pts. SW, NWSE	24	63N	4W	33
12	Pts. SWNE, SENW, N2SW	24	63N	4W	25
13	Pts. SWNE, NWSE	24	63N	4W	9
14	Pts. E2NE	24	63N	4W	15
15	Pts. N2SE, SWSE	24	63N	4W	17
16	Pts. N2SW, SWSW	10	63N	4W	16
17	Pts. E2SW	10	63N	4W	7

18	Pts. S2SW Pts. N2NW	10 15	63N 63N	4W 4W	18
19	Pts. W2NE, E2NW	9	63N	4W	23

TOTAL: 486

2. TREATMENT TYPE:

- A. Units 1, 3, 4, 5, 6, 7, 8, 9, 10, 16, 17 and 18 will be mechanically thinned with chainsaws to various spacing's by felling surplus trees over two feet in height.
- B. Units 2, 11, 12, 13, 14, 15 and 19 will be mechanically thinned with chainsaws to various spacing's by felling surplus trees over two feet in height. White pine crop trees in these units will be pruned.

3. ACCESS:

Units 1, 2, 4, 5, 6, 7, 8, 10, 11, 12, 13, 14, 15 and 19 are accessed by driveable roads.

Units 3, 9, 16, 17 and 18 are accessible by ORV or foot travel.

4. PROJECT PERIOD:

Work may commence after June 1, 2009 and after the Contractor has received a signed copy of the contract and has had a pre-work conference with the Contract Supervisor. This contract shall terminate on October 31, 2009.

5. CONTRACT PAYMENT:

Payment will be made upon completion of each of the below listed payment units as described in Master Contract No. 09-204-100478. Payment is to be made at the rate set forth in Schedule A attached hereto. No payment will be made before July 1st unless approved by the contract supervisor.

Payment Unit No.	Project Unit Numbers	Acres
1	1,2, 3, 4, 5, 6	154
2	7, 8, 9	148
3	10,11, 12, 13, 14, 15, 16, 17, 18, 19	184

Total 486

6. THINNING

SUBJECT TO DIRECTION AND INSTRUCTION OF THE CONTRACT SUPERVISOR, THE CONTRACTOR WILL BE REQUIRED TO ADHERE TO THE FOLLOWING.

A. Leave Tree Specifications: Units 1 - 19

1. Crop or leave trees for all units listed above are to be the best available trees based upon size and vigor, species preference and spacing. When available, the average number of leave trees per acre will not be less than the minimum of the accepted range. The average number of leave trees will not exceed the maximum of the accepted range, except for areas containing a substantial quantity of oversized trees, as described in items 3 of this section.
2. When selecting crop trees, a variety of species should be selected. Species preferences from first choice to last, by unit, are as follows:

Unit No.	Treatment Type	Leave tree Spacing	Acres	Species preference
1	Thin	12 X12	10	WP, WL, DF, CE, ES, GF, WH, AF, LP, PP
2	Thin and Prune	12 X12	30	WP, WL, DF, CE, ES, GF, WH, PP, AF LP
*3	Thin	9 X 9	47	WL, DF, WP PP, LP, CE, ES, GF, WH, AF
*4	Thin	9 X 9	18	WL, DF, WP, PP, LP, CE, ES, GF, WH, AF
*5	Thin	9 X 9	37	WL, DF, WP, PP, LP, CE, ES, GF, WH, AF
6	Thin	9 X 9	12	WL, DF, WP, PP, LP, CE, ES, GF, WH, AF
7	Thin	12 X 12	67	WP, WL, DF, CE, ES, GF, WH, AF, LP, PP
8	Thin	12 X12	67	WP, WL, DF, CE, ES, GF, WH, AF, LP, PP
9	Thin	12 X 12	14	WP, WL, CE, DF, ES, GF, WH, AF, LP, PP
10	Thin	12 X !2	21	WP, WL, CE, DF, ES, GF, WH, AF, LP, PP
11	Thin and Prune	12 X 12	33	WP, WL, CE, DF, ES, PP, GF, WH, AF, LP

12	Thin and Prune	12 X 12	25	WP, WL, CE, DF, ES, PP, GF, WH, AF, LP.
13	Thin and Prune	12 X 12	9	WP, WL, CE, DF, ES, PP, GF, WH, AF, LP
14	Thin and Prune	12 X 12	15	WP, WL, CE, DF, , ES, PP, GF, WH, AF, LP
15	Thin and Prune	12 X 12	17	WP, WL, CE, DF, ES, PP, GF, WH, AF, LP
16	Thin	12 X 12	16	WP, WL, CE, DF, ES, PP, GF, WH, AF, LP
17	Thin	12 X 12	7	WP, WL, CE, DF, ES, GF, WH, AF, PP, LP
18	Thin	12 X 12	18	WP, WL, CE, DF, ES, GF, WH, AF, PP, LP
19	Thin and Prune	12 X 12	23	WP, WL, CE, DF, ES, PP, GF, WH, AF, LP
Total Acres			486	
Total Acres of Thin Only			334	
Total Acres of Thin and Prune			152	

***Units 3, 4 and 5 have areas within the unit boundaries that need little or no thinning: Unit 3 has approximately 20 acres, Unit 4 has approximately 8 acres and Unit 5 has approximately 20 acres.**

Species Abbreviations:

WP: white pine	LP: lodgepole pine
WL: larch	ES: Engelmann spruce
DF: Douglas-fir	GF: grand fir
CE: cedar	WH: hemlock
PP: ponderosa pine	AF: subalpine fir

3. No tree, including hardwoods, over 6 inches DBH will be cut.

B. Cut Tree Specifications:

1. Conifers:

- a. Living culls and other non-crop trees, less than 6 inches DBH and 2 feet or more in height, will be cut.

Living culls are further defined as follows:

1. Trees which have multiple tops or where the top has died or broken off and terminal growth has been assumed by another limb.

2. Trees with dead, badly damaged or missing tops.
 3. Trees containing less than one-third their total height in live crown.
 4. Trees which have suffered mechanical or animal damage which has caused the loss of the cambium from an area of half their circumference.
 5. Trees with conks present.
 6. Western white pine with lethal blister rust present.
- b. In Units 1 – 19, living culls 6 inches DBH and greater will be girdled as per the specifications set forth in Division B, of Master Contract No. 09-204-100478
2. Hardwoods:
- a. In Units 1- 19, hardwood species which are less than 6 inches DBH and are located within 8 feet of a selected leave tree and are within 3 feet in height of overtopping the leave tree will be cut.
 - b. In Units 1 – 19, hardwood species which are 6 inches DBH and greater and located within 8 feet of a selected leave tree and are within 3 feet in height of overtopping the leave tree, will be girdled as per the specifications set forth in Division B, of Master Contract No. 09-204-100478.

7. PRUNING:

- A. In Units 2, 11, 12, 13,14,15 and 19, western white pine crop trees, 4 feet and greater in height which are free from lethal blister rust cankers, will be pruned of all branches to a 8 foot lift, or to 1/2 of the total tree height leaving a 50% live crown, whichever comes first. Height will be measured from the uphill side of the tree.
- B. Lethal blister rust cankers are defined as bole cankers and/or branch cankers located closer than 6 inches to the main stem (see Exhibit A).

- C. All live limbs, dead limbs and needles on the main bole shall be completely severed from the tree. Branches are to be pruned to leave a flat cut surface within 1/4 inch of the branch collar (see Exhibit A
- D. Pruning operations shall be conducted in a manner that does not cause tree damage. Hand pruners, lopping shears or pruning saws will be used as approved by the Contract Supervisor. Pruning with chainsaws or clubs will not be allowed.

8. INSPECTION:

Thinning and pruning work will be inspected and payment made as per Division A of Master Contract No. 09-204-100478. Either a 1/20th acre circular plot (26.3 feet radius horizontal distance) or 1/50th acre (16.65 ft. radius horizontal distance circular plots will be used for inspection. Where excessive crop trees are found to be the result of trees over 6 inches DBH which cannot be cut or western white pine "ghost" trees, the Contractor will not be penalized.

9. PROJECT UNIT BOUNDARY DESIGNATION:

Individual unit boundaries are designated by a combination of pink/black striped and blue flagging or by drivable roads as shown on the project unit map.

10. HAZARD PLAN:

- A. Road: Roads 1, spur 1 of Rd. 1, 2, 14, spur 1 and 2 of Rd 24, 43, 44, 140, 143B, 147, 243, 432, and 465 that are to be kept free of slash are designated on the project maps. Falling will be done to prevent material from entering these areas whenever possible. All thinning slash introduced onto the road running surface, ditches, culvert catch basins and cuts slopes will be required to be removed and pulled back into the thinning area and dispersed.
- B. Project Boundaries: Slash, which falls outside the boundaries of a treatment area, will be pulled back inside the boundary and scattered.

11. WATER QUALITY:

Any material introduced into or over a live stream in the thinning or pruning process will be removed and placed at least 5 feet horizontal distance from the high water mark.

12. CADASTRAL MONUMENTS AND ACCESSORIES:

Survey monuments and accessories that may be discovered during the execution of this contract will be protected and kept clear of slash. Monuments and accessories (Bearing Trees - BT's) that are destroyed or damaged during the execution of this contract will be re-established at the Contractors expense in accordance with applicable law.

13. INFORMATION:

Information is available by contacting the following address:

Idaho Department of Lands
4053 Cavanaugh Bay Road
Coolin, Id. 83821
(208) 443-2516

R 5 W

R 4 W

R 3 W

T 63 N

Trapper Jack Thin and Prune
Contract No. 09-204-100478
Project No. 10-478-112-09
Vicinity Map

T 62 N

T 61 N

PRIEST LAKE

T 60 N

T 59 N

T 58 N

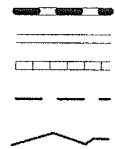
Highway 51

N



Legend:

Roads
Paved
Primary
Secondary
Spur
Streams
Class I



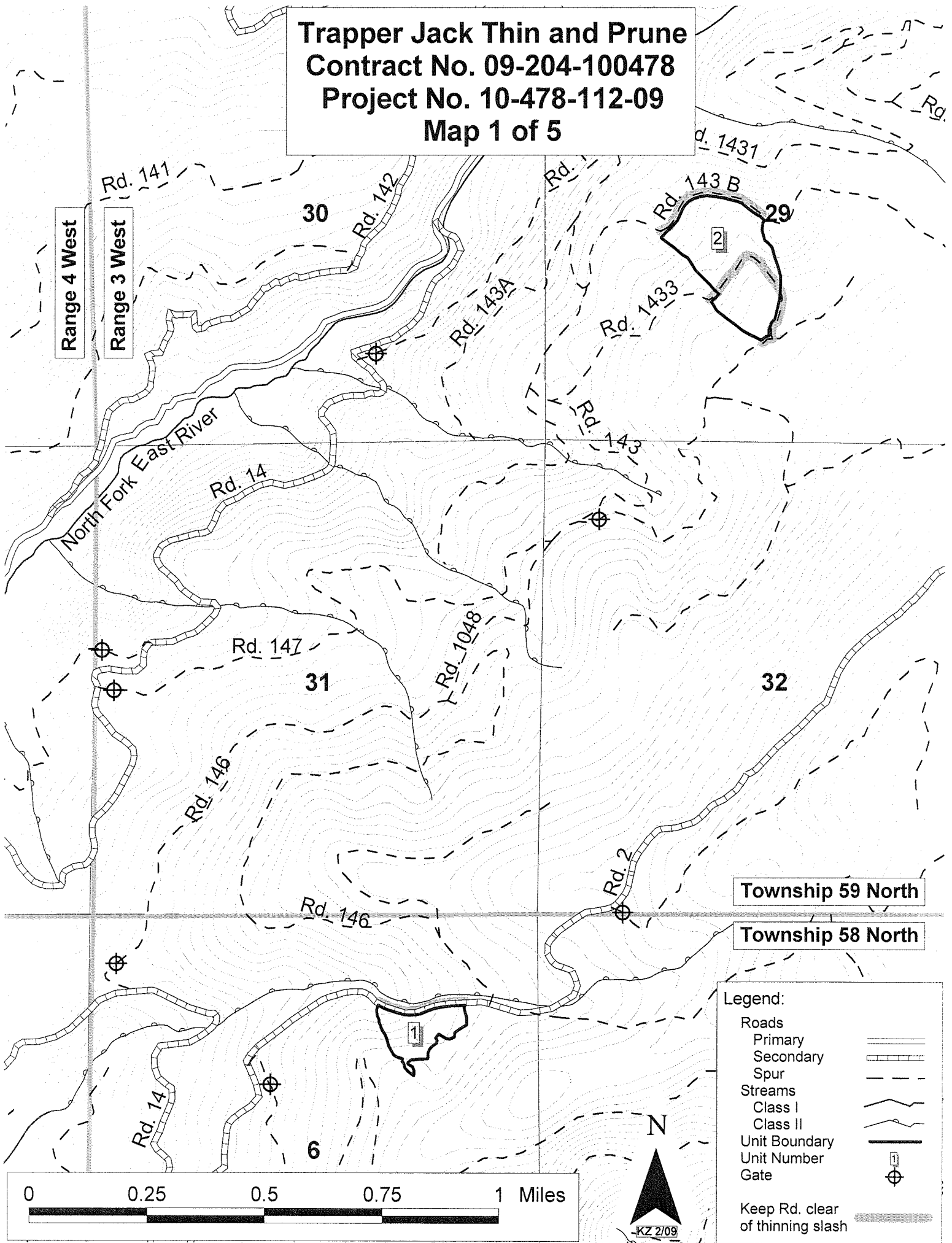
Thinning Areas



0 2 4 6 8 Miles



Trapper Jack Thin and Prune
Contract No. 09-204-100478
Project No. 10-478-112-09
Map 1 of 5



**Trapper Jack Thin and Prune
Contract No. 09-204-100478
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Map 2 of 5**

Range 4 West

East River Rd.

Rd. 140

Rd. 141

Rd. 14

North Fork East River

Township 59 North

Township 58 North

Rd. 14

6

4

5

3

2

1

Legend:

- Roads
 - Primary
 - Secondary
 - Spur
- Streams
 - Class I
 - Class II
- Unit Boundary
- Unit Number Gate

Keep Rd. clear
of thinning slash

0 0.25 0.5 0.75 1 Miles

N

KZ 2/09

Trapper Jack Thin and Prune
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Map 3 of 5

Range 3 West

Township 61 North

Township 60 North

Hunt Creek

Rd. 25

32

33

Rd. 24

Rd. 241

5

Spur 1

Spur 2

Spur 3

7

8

4

9

Rd. 241

Rd. 24

8

Rd. 241

Rd. 24

9

0 0.25 0.5 0.75 1 Miles

N



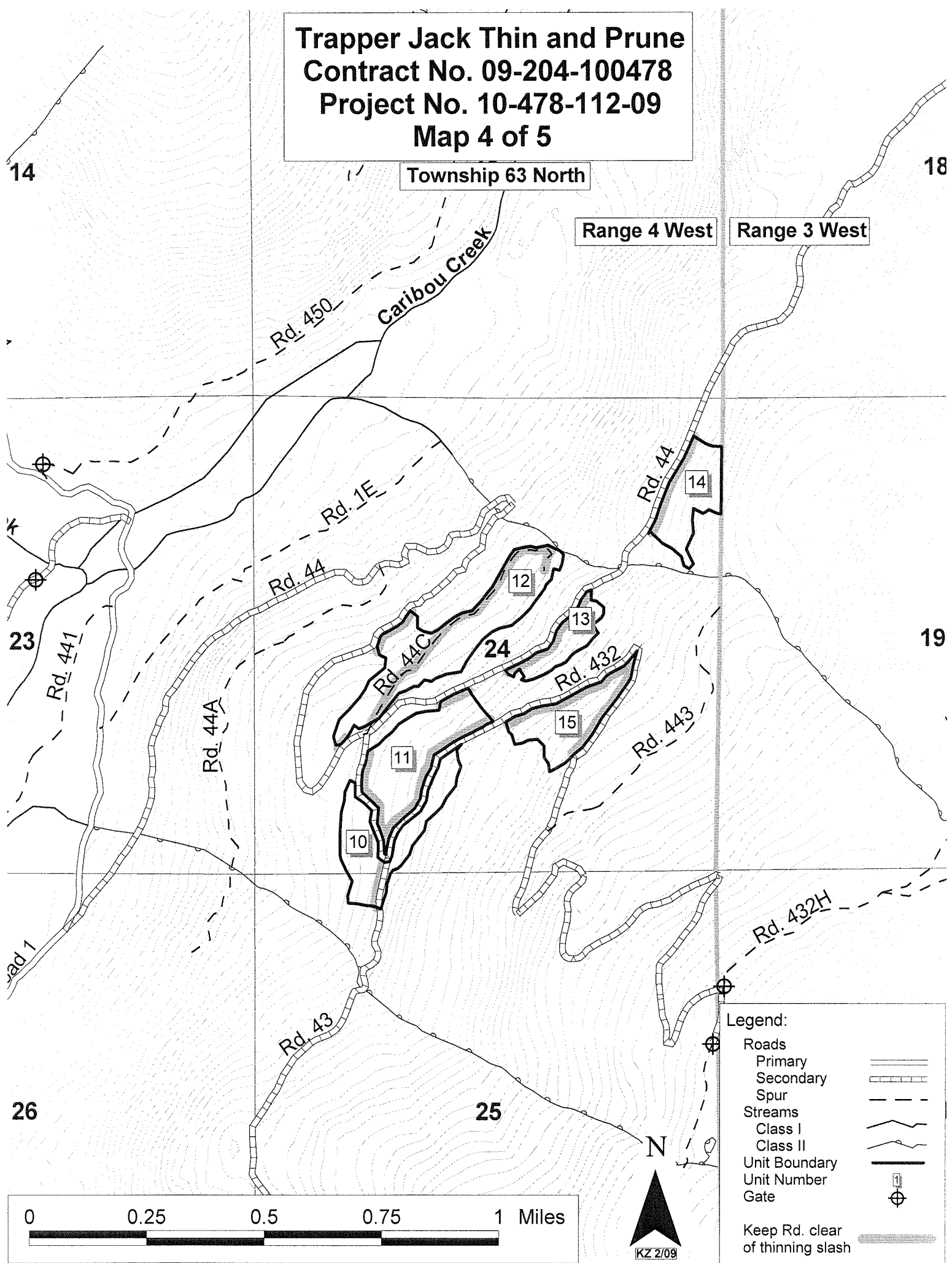
Legend:

- Roads
 - Primary
 - Secondary
 - Spur
- Streams
 - Class I
 - Class II
- Unit Boundary
- Unit Number
- Gate

Keep Rd. clear
of thinning slash



**Trapper Jack Thin and Prune
Contract No. 09-204-100478
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Map 4 of 5**



14

18

Township 63 North

Range 4 West

Range 3 West

23

19

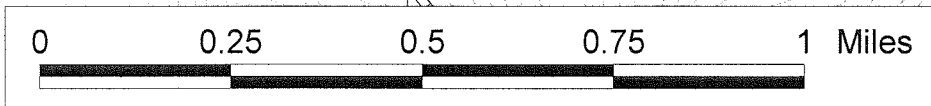
26

25

Legend:

Roads	
Primary	=====
Secondary	=====
Spur	-----
Streams	
Class I	~~~~~
Class II	~~~~~
Unit Boundary	=====
Unit Number Gate	⊕

Keep Rd. clear of thinning slash



KZ 2/09

Trapper Jack Thin and Prune
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Project No. 10-478-112-09
Map 5 of 5

Township 64 North - Range 4 West

